

ABSTRACT

A bearing having a high thrust rigidity, an excellent vibration resistance, and a simple structure, as well as a spindle motor using such a bearing are provided. A groove or grooves 7 are disposed to either one of a shaft 2 and a sleeve 3 which form a radial bearing portion, to thereby exert thrust force in a direction which brings two mutually facing members at a thrust bearing portion closer to each other. The groove 7 is inclined with respect to an axis, and the inclination exerts, between the shaft 2 and the sleeve 3, thrust force in a thrust direction. The groove 7 may be herringbone-shaped or other type of groove which can generate such thrust force. It is also possible to further enhance the thrust force utilizing a negative pressure, with an upstream side of the radial bearing portion for introducing fluid such as air shielded from outside air.

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